

WHAT IS CLAIMED IS:

1   1. A data management method, comprising:  
2    providing a data engine;  
3    obtaining an observation at an output device;  
4    obtaining another observation at another output device,  
5       wherein said observation and said another observation  
6       define a plurality of different observations from a  
7       plurality of different output devices;  
8    sending said plurality of different observations from said  
9       plurality of different output devices to said data  
10      engine;  
11     storing said plurality of different observations in a  
12       database under control of said data engine; and  
13     in response to a report request:  
14       retrieving said plurality of different observations  
15       from said database in accordance with parameters in  
16       said report request to provide a plurality of  
17       retrieved observations; and  
18     producing a report based on said plurality of retrieved  
19       observations.

1   2. A clinical trial data management server method,  
2   comprising:  
3    receiving, at a server, a user profile provided by a  
4   client;

5       based on said user profile, indicating to said client one  
6            or more matching clinical trials;  
7        receiving a clinical trial selection from said client;  
8        providing to said client a selected clinical trial module  
9            indicated by said clinical trial selection and  
10          corresponding to a selected one of said matching  
11          clinical trials.

1       3.    The clinical trial data management server method as set  
2        forth in claim 2, further comprising:  
3        receiving, at said server, clinical trial data relating to  
4            one of said clinical trials and including a respective  
5            data observation;  
6        storing said respective data observation in a database of  
7            data observations; and  
8        in response to a report request:  
9            retrieving selected ones of said data observations from  
10            said database in accordance with parameters in said  
11            report request to provide a plurality of retrieved  
12            observations; and  
13            producing a report based on said plurality of retrieved  
14            observations.

1       4.    The clinical trial data management server method as set  
2        forth in claim 3, wherein said clinical trial data is  
3        provided to said server by a medical device.

1 5. The clinical trial data management server method as set  
2 forth in claim 3, wherein said clinical trial data is  
3 provided to said server over the Internet.

1 6. The clinical trial data management server method as set  
2 forth in claim 3, wherein said clinical trial data is  
3 provided to said server by a general-purpose computing  
4 device having said clinical trial data manually inputted by  
5 a user.

1 7. The clinical trial data management server method as set  
2 forth in claim 6, wherein said general-purpose computing  
3 device is one of: a personal computer, a handheld computing  
4 device, and a telephone.

1 8. The clinical trial data management server method as set  
2 forth in claim 3, wherein:  
3 said server includes a data engine;  
4 said data engine comprises a health data management module  
5 and a clinical trials management module;  
6 said health data management module comprises data analysis  
7 algorithms used by said data engine to analyze said  
8 clinical trial data; and  
9 said clinical trials management module:  
10 selects said one or more matching clinical trials,  
11 based on said user profile;

12 provides an approval of said clinical trial selection;  
13 and  
14 provides said selected clinical trial module.

15

1 9. The clinical trial data management server method as set  
2 forth in claim 8, wherein said clinical trials management  
3 module performs said selecting of said one or more matching  
4 clinical trials by comparing said received user profile with  
5 clinical trials profiles stored in a clinical trials  
6 database.

1 10. The clinical trial data management server method as set  
2 forth in claim 8, wherein said health data management module  
3 comprises data analysis algorithms and is adapted to accept  
4 data for one or more of: cardiology data, diabetes data,  
5 allergy data, and immunology data.

1 11. The clinical trial data management server method as set  
2 forth in claim 8, wherein said health data management module  
3 is adapted to send analyzed data to said client, said  
4 analyzed data comprising one or more of: a data display,  
5 complex data charting, and trend identification.

1 12. The clinical trial data management server method as set  
2 forth in claim 11, wherein said complex data charting  
3 comprises mathematical EKG pattern analysis.

1 13. The clinical trial data management server method as set  
2 forth in claim 11, wherein said trend identification is  
3 based on a plurality of said data observations from a  
4 plurality of different medical devices.

1 14. A clinical trial data server, comprising;  
2 a data engine receiving a user profile provided by a  
3 client;  
4 said data engine having a clinical trials management  
5 module for analyzing said user profile and indicating to  
6 said client one or more matching clinical trials;  
7 said data engine receiving a clinical trial selection from  
8 said client;  
9 said clinical trials management module providing to said  
10 client a selected clinical trial module indicated by  
11 said clinical trial selection and corresponding to a  
12 selected one of said matching clinical trials.

1 15. The clinical trial data server as set forth in claim  
2 14, further comprising a health data management module  
3 receiving clinical trial data relating to one of said  
4 clinical trials, said clinical trial data including a

5       respective data observation; and said data engine storing  
6       said respective data observation in a database of data  
7       observations.

1       16. The clinical trial data server as set forth in claim  
2       15, wherein said data engine is adapted to receive said  
3       clinical trial data from a medical device.

1       17. The clinical trial data server as set forth in claim  
2       15, wherein said data engine is adapted to receive said  
3       clinical trial data over the Internet.

1       18. The clinical trial data server as set forth in claim  
2       15, wherein said data engine is adapted to receive said  
3       clinical trial data from a general-purpose computing device.

1       19. The clinical trial data server as set forth in claim  
2       18, wherein said general-purpose computing device is one of:  
3       a personal computer, a handheld computing device, and a  
4       telephone.

1       20. The clinical trial data server as set forth in claim  
2       15, wherein:  
3            said health data management module comprises data analysis  
4            algorithms used by said data engine to analyze said  
5            clinical trial data; and  
6            said clinical trials management module:

7       selects said one or more matching clinical trials,  
8           based on said user profile;  
9       provides an approval of said clinical trial selection;  
10          and  
11       provides said selected clinical trial module.

12

1 21. The clinical trial data server as set forth in claim  
2 20, wherein said clinical trials management module performs  
3 said selecting of said one or more matching clinical trials  
4 by comparing said received user profile with clinical trials  
5 profiles stored in a clinical trials database.

1 22. The clinical trial data server as set forth in claim  
2 20, wherein said health data management module comprises  
3 data analysis algorithms and is adapted to accept data for  
4 one or more of: cardiology data, diabetes data, allergy  
5 data, and immunology data.

1 23. The clinical trial data server as set forth in claim  
2 20, wherein said health data management module is adapted to  
3 send analyzed data to said client, said analyzed data  
4 comprising one or more of: a data display, complex data  
5 charting, and trend identification.

1 24. The clinical trial data server as set forth in claim  
2 23, wherein said complex data charting comprises  
3 mathematical EKG pattern analysis.

1 25. The clinical trial data server as set forth in claim  
2 23, wherein said trend identification is based on a  
3 plurality of said data observations from a plurality of  
4 different medical devices.

1 26. A clinical trial client for use on a computer,  
2 comprising:  
3 a module for sending a user profile to a clinical trial  
4 data server;  
5 a module for receiving from said clinical trial data  
6 server an indication of one or more matching clinical  
7 trials;  
8 a module for accepting a user selection of one of said one  
9 or more matching clinical trials, and sending to said  
10 clinical trial data server a clinical trial selection;  
11 and  
12 a module for receiving and installing a clinical trial  
13 module corresponding to said clinical trial selection.

1 27. The clinical trial client as set forth in claim 26,  
2 further comprising a module for sending clinical trial data,

3 relating to said clinical trial selection, to said clinical  
4 trial data server.

1 28. A user interface for a clinical trial client for use on  
2 a computer, comprising:  
3 an activatable region for data collection;  
4 an activatable region for displaying a data graph; and  
5 an activatable region for note operations.

1 29. The user interface as set forth in claim 28, further  
2 comprising said activatable region for data collection being  
3 responsive to obtain from a user a time indication as to  
4 whether an entry time relates to a morning observation or an  
5 evening observation.

1 30. The user interface as set forth in claim 29, further  
2 comprising obtaining responses to a respective set of  
3 assessment questions, said respective set of assessment  
4 questions being automatically selected based on said time  
5 indication.

1 31. The user interface as set forth in claim 28, further  
2 comprising said activatable region for data collection being  
3 responsive to obtain a quantitative data input relating to  
4 an observation with respect to a medical device.

1 32. The user interface as set forth in claim 28, further  
2 comprising said activatable region for data collection being  
3 responsive to obtain notes concerning one or more of: a  
4 change of medication, a change of dose, and additional  
5 medications taken.

1 33. The user interface as set forth in claim 28, further  
2 comprising said activatable region for displaying said data  
3 graph being responsive to display a graph of data  
4 observations previously entered using said activatable  
5 region for data collection.

1 34. The user interface as set forth in claim 28, further  
2 comprising said activatable region for note operations being  
3 responsive to perform operations with respect to notes  
4 previously entered using said activatable region for data  
5 collection, said operations including one or more of: adding  
6 a note; changing a note; and deleting a note.